NUTRIENT SUSTAINABILITY IN THE INTENSIVE LIVESTOCK SECTOR

5-7 March 2025, Saint Malo, Brittany, France

Themes:

- How to balance the efficiencies possible in nutrient management in intensive livestock production and the social benefits (price of meat, regional agri-food specialisation …) with regional nutrient misbalance challenges
- Best Available Technologies and Best Environmental Management Practices today and tomorrow for livestock nutrient Management, from feed to manure
- Manure processing and nutrient recycling: technologies, environmental benefits, challenges to implementation

Workshop outcomes:

- Workshop summary to be published in ESPP SCOPE Newsletter (110 000 emailing worldwide)
- Define key messages of **joint position paper on nutrient sustainability in intensive livestock production**, 1-4 pages, to be finalised by email exchange (and telcon) if necessary with participating organisations, after the workshop
- This position paper will provide input to the UNEP (United Nations Environment Programme) project uPcycle https://www.upcyclelakes.org/

Wednesday 5th March	
Morning session (9:00 h – 13:30 h)	
9:00 – 9:30 h	Registration
9:30 – 12:30 h	Visit to Roullier facilities
12:30 – 13:30 h	Networking lunch
Afternoon Session (13:30 h – 17:30 h)	
Introduction (13:30 – 14:15)	
10 min.	Welcome. Outline of the workshop objectives
20 min.	Presentations of Cooperl and of Roullier and their actions for nutrient sustainability
10 min.	How this workshop and the uPcycle project fit into UNEP's objectives.
5 min.	Questions. Discussion of workshop objectives and outputs.
Context: role of livestock production in nutrient movements (14:15 – 15:30)	
20 min.	Feed and food product movements of nutrients in global trade and implications for food security, soil P losses, …
25 min.	Regional nutrient imbalances related to livestock concentration: three case studies
15:30 – 16:00h	Break
Context: diet, intensive livestock production and sustainability (16:00 – 17:30)	
15 min.	Global nutrient challenges and UN policies *10 min presentation + 5 min questions*
15 min.	Intensive livestock : nutrient flows, environmental impacts and circular bioeconomy systems
15 min.	Nutrients and the EATLancet diet
15 min.	Nutrient circularity, human diets, livestock feed and production choices.
15 min.	LCA of intensive livestock systems
15 min.	Questions and discussion
17:30 – 19:00	Free time before the visit + dinner
19:00 – 20:00h	Visit Roullier Minerallium
20:00 – 22:00 h	Networking Dinner
Thursday 6th March	
Improving nutrient efficiency in animal production (9:00 – 11:00)	
20 min.	Improving nutrient use efficiency in animal feed: progress to date and perspectives
25 min.	Company case studies *3x5 min presentation + 10 min questions*
20 min.	Towards circularity in animal feed

20 min.	Nutrient footprints of meat production
20 min.	Agri-food system nutrient use efficiency in intensive livestock
15 min.	Questions and discussion
11:00 – 11:30	Break
11:30h Expert panel – discussion of key messages (11:30 – 13:00)	
Panel – 5-7 industry positions 1 hour	Livestock industry position.
	NGO position.
	Food industry
	Supermarket/retailer
	Farmers
	Meat producers industry
12:30 – 13:00	Discussion of key messages
13:00 – 14:00	Lunch
Towards manure recycling (14:00 – 15:15)	
20 min.	Overview of manure processing and nutrient recycling
20 min.	Identifying and testing technologies for and by dairy farmers, Newtrient USA
20 min.	Manure processing and renewable biogas
15 min.	Discussion of key messages
15:15 – 15:45h	Break
20 min.	EU regulatory context and BAT.
20 min.	Policy and funding
25 min.	Cases of successful business cases implemented on intensive livestock farms *3x5 min presentations plus 10 mins questions*
15 min.	Proposed key messages from first previous sessions 4-5 x 2 slides / 3 minutes
20 min.	Discussion of key messages and input to uPcycle UNEP paper
17h-18h	Closing coffe
18h – 19h	Tourist visit??
20h	Informal networking dinner

Friday 7th March Visit to Cooperl biorefinery and experimental farm	
8:30h – 16h	**Lamballe** – water and energy recovery, processing of digestates to organic fertilisers **Cooperl** experimental research farm, Ville Poissin